

Rating Guide
ELS-Beaver Cluster

- 1 [1] Allow 1 credit for a correct external structure *and* a correct explanation. Acceptable responses include, but are not limited to:

Example of a 1-credit response:

Structure	Explanation
second eyelid	– helps to see under water
thick, oily fur	– keeps it warm – helps it float in water
tail	– helps to swim – helps it balance – scares away predators
webbed feet	– helps it swim
teeth	– cut wood to make dams – cut plant material to eat

- 2 [1] Allow 1 credit for *D*.

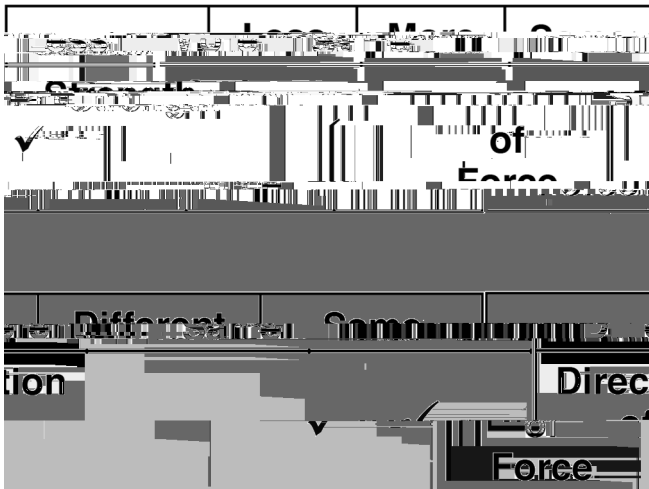
- 3 [1] Allow 1 credit for *C*.

- 4 [1] Allow 1 credit. Acceptable responses include, but are not limited to:

- Both populations showed an increase followed by a decrease, but it happened twice in California.
- Beaver populations changed more quickly in California than in Massachusetts

Rating Guide
ELS-Bowling Cluster

- 1 [1] Allow 1 credit. Acceptable responses include, but are not limited to:
- The motion energy decreases from photograph *A* to *B* because as the ball speed decreases, so does the amount of energy.
 - The motion energy decreases as the ball rolls to a slower speed.
 - The energy decreases because the speed of the ball went from 21 mph to 17 mph.
 - The energy decreases because an object possesses less energy of motion when it is moving slower.
- 2 [1] Allow 1 credit for *C*.
- 3 [1] Allow 1 credit for *D*.
- 4 [1] Allow 1 credit. Acceptable responses include, but are not limited to:
- motion energy to sound energy
 - kinetic energy to sound energy
 - motion/kinetic energy to heat/thermal energy
- 5 [1] Allow 1 credit for only two check marks in table, as shown below.



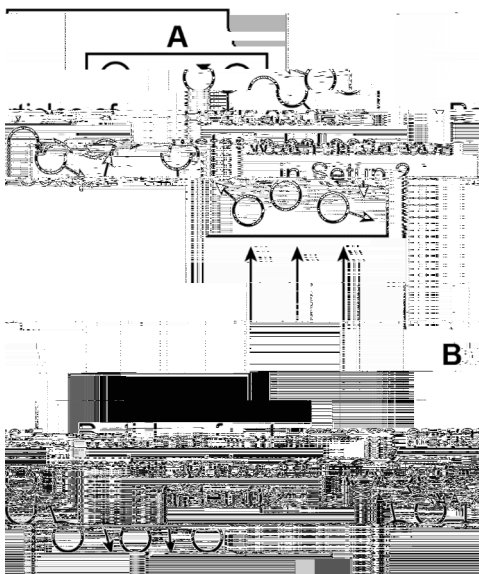
**Item Alignment
ELS-Bowling Cluster**

Item Number	Performance Expectation
1	4-PS3-1
2	4-PS3-3
3	3-PS2-1
4	4-PS3-2
5	3-PS2-1

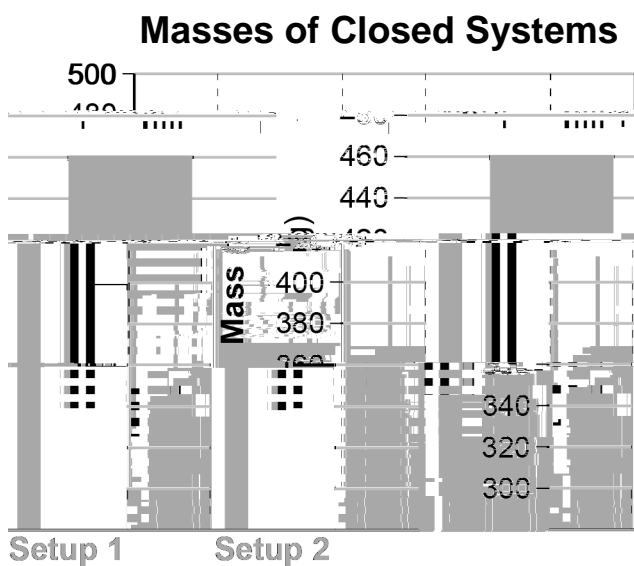
Rating Guide
ELS-Energy and Matter in a Closed System Cluster

- 1 [1] Allow 1 credit for C.
- 2 [1] Allow 1 credit for *both* water particle models placed in the locations shown below.

Example of a 1 credit response:



- 3 [1] Allow 1 credit for *both* bars reaching a height of 460 grams.



Note: Allow credit if the bars are not shaded but reach a height of 460 grams.

